

OIE #2

Serial Number: 09/904,253

ENTERED

Edited by:

Verified by:

(STIC sta)

Changed a file from non-ASCII to ASCII

Changed the margins in cases where the sequence text was 'wrapped' down to the next line.

Edited a formal error in the Current Application Data section, specifically:

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____

Added the mandatory heading and subheadings for "Current Application Data".

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

Inserted colons after headings/subheadings. Headings edited included: _____

Deleted extra, invalid, headings used by an applicant, specifically:

Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/username at end of file; page numbers throughout text; other invalid text, such as _____

Inserted mandatory headings, specifically: _____

Corrected an obvious error in the response, specifically:

Edited identifiers where upper case is used but lower case is required, or vice versa.

Corrected an error in the Number of Sequences field, specifically:

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

Other: corrected (3077) response - Seq 1

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1995

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/904,753

DATE: 08/28/2001
TIME: 18:47:35

Input Set : A:\Pto.amc
Output Set: N:\CRF3\08282001\I904753.raw

3 <110> APPLICANT: Lynos, Robert T
5 <120> TITLE OF INVENTION: Use of ANtimicrobial Peptides as Preservatives in
6 Ophthalmic Preparations, Including Solutions,
7 Emulsions, and Suspensions
9 <130> FILE REFERENCE: 2973 ver 2
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/904,753
C--> 12 <141> CURRENT FILING DATE: 2001-07-13
14 <150> PRIOR APPLICATION NUMBER: WO 96/25183
15 <151> PRIOR FILING DATE: 1996-08-22
17 <160> NUMBER OF SEQ ID NOS: 14
19 <170> SOFTWARE: PatentIn Ver. 2.1
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 23
23 <212> TYPE: PRT
24 <213> ORGANISM: Xenopus laevis
26 <300> PUBLICATION INFORMATION:
27 <301> AUTHORS: Lee et al.,
28 <302> TITLE: High-Level Expression of Antimicrobial Peptide Mediated
29 by a Fusion Partner Reinforcing Formation of Inclusion
30 Bodies
31 <303> JOURNAL: Biochem. Biophys. Res. Commun.
32 <304> VOLUME: 277
33 <306> PAGES: 575-580
34 <307> DATE: 2000-09-21
36 <400> SEQUENCE: 1
37 Gly Ile Gly Lys Phe Leu His Ser Ala Gly Lys Phe Gly Lys Ala Phe
38 1 5 10 15
40 Val Gly Glu Ile Met Lys Ser
41 20
44 <210> SEQ ID NO: 2
45 <211> LENGTH: 23
46 <212> TYPE: PRT
47 <213> ORGANISM: Xenopus laevis
49 <400> SEQUENCE: 2
50 Gly Ile Gly Lys Phe Leu His Ser Ala Lys Lys Phe Gly Lys Ala Phe
51 1 5 10 15
53 Val Gly Glu Ile Met Asn Ser
54 20
57 <210> SEQ ID NO: 3
58 <211> LENGTH: 22
59 <212> TYPE: PRT
60 <213> ORGANISM: Artificial Sequence
62 <220> FEATURE:
63 <221> NAME/KEY: PEPTIDE
64 <222> LOCATION: (22)
65 <223> OTHER INFORMATION: Xaa at position 22 is Lys-amide
67 <220> FEATURE:

RAW SEQUENCE LISTING DATE: 08/28/2001
PATENT APPLICATION: US/09/904,753 TIME: 18:47:35

Input Set : A:\Pto.amc
Output Set: N:\CRF3\08282001\I904753.raw

68 <223> OTHER INFORMATION: Description of Artificial Sequence: maginin analog
70 <400> SEQUENCE: 3
71 Gly Ile Gly Lys Phe Leu Lys Lys Ala Lys Lys Phe Gly Lys Ala Phe
72 1 5 10 15
W--> 74 Val Lys Ile Leu Lys Xaa
75 20
78 <210> SEQ ID NO: 4
79 <211> LENGTH: 22
80 <212> TYPE: PRT
81 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: Description of Artificial Sequence: maginin analog
86 <400> SEQUENCE: 4
87 Gly Ile Gly Lys Phe Leu Lys Lys Ala Lys Lys Phe Gly Lys Ala Phe
88 1 5 10 15
90 Val Lys Ile Leu Lys Lys
91 20
94 <210> SEQ ID NO: 5
95 <211> LENGTH: 37
96 <212> TYPE: PRT
97 <213> ORGANISM: silk moth
99 <400> SEQUENCE: 5
100 Lys Trp Lys Leu Phe Lys Lys Ile Glu Lys Val Gly Gln Asn Ile Arg
101 1 5 10 15
103 Asp Gly Ile Ile Lys Ala Gly Pro Ala Val Ala Val Val Gly Gln Ala
104 20 25 30
106 Thr Gln Ile Ala Lys
107 35
110 <210> SEQ ID NO: 6
111 <211> LENGTH: 36
112 <212> TYPE: PRT
113 <213> ORGANISM: silk moth
115 <400> SEQUENCE: 6
116 Lys Trp Lys Val Phe Lys Lys Ile Glu Lys Met Gly Arg Asn Ile Arg
117 1 5 10 15
119 Asn Gly Ile Val Lys Ala Gly Pro Ala Ile Ala Val Leu Gly Glu Ala
120 20 25 30
122 Lys Ala Leu Gly
123 35
126 <210> SEQ ID NO: 7
127 <211> LENGTH: 38
128 <212> TYPE: PRT
129 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Description of Artificial Sequence: analog of
133 cecropin B
135 <400> SEQUENCE: 7
136 Met Pro Arg Trp Arg Leu Phe Arg Arg Ile Asp Arg Val Gly Lys Gln
137 1 5 10 15

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/904,753

DATE: 08/28/2001
TIME: 18:47:35

Input Set : A:\Pto.amc
Output Set: N:\CRF3\08282001\I904753.raw

139 Ile Lys Gln Gly Ile Leu Arg Ala Gly Pro Ala Ile Ala Leu Val Gly
140 20 25 30
142 Asp Ala Arg Ala Val Gly
143 35
146 <210> SEQ ID NO: 8
147 <211> LENGTH: 30
148 <212> TYPE: PRT
149 <213> ORGANISM: human
151 <400> SEQUENCE: 8
152 Ala Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr
153 1 5 10 15
155 Gly Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys
156 20 25 30
159 <210> SEQ ID NO: 9
160 <211> LENGTH: 29
161 <212> TYPE: PRT
162 <213> ORGANISM: human
164 <400> SEQUENCE: 9
165 Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr Gly
166 1 5 10 15
168 Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys
169 20 25
172 <210> SEQ ID NO: 10
173 <211> LENGTH: 30
174 <212> TYPE: PRT
175 <213> ORGANISM: human
177 <400> SEQUENCE: 10
178 Asp Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr
179 1 5 10 15
181 Gly Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys
182 20 25 30
185 <210> SEQ ID NO: 11
186 <211> LENGTH: 33
187 <212> TYPE: PRT
188 <213> ORGANISM: rabbit
190 <400> SEQUENCE: 11
191 Val Val Cys Ala Cys Arg Arg Ala Leu Cys Leu Pro Arg Glu Arg Arg
192 1 5 10 15
194 Ala Gly Phe Cys Arg Ile Arg Gly Arg Ile His Pro Leu Cys Cys Arg
195 20 25 30
197 Arg
201 <210> SEQ ID NO: 12
202 <211> LENGTH: 11
203 <212> TYPE: PRT
204 <213> ORGANISM: cow
206 <400> SEQUENCE: 12
207 Arg Leu Cys Arg Val Val Ile Arg Val Cys Arg
208 1 5 10
211 <210> SEQ ID NO: 13

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/904,753

DATE: 08/28/2001
TIME: 18:47:35

Input Set : A:\Pto.amc
Output Set: N:\CRF3\08282001\I904753.raw

212 <211> LENGTH: 26
213 <212> TYPE: PRT
214 <213> ORGANISM: Artificial Sequence
216 <220> FEATURE:
217 <221> NAME/KEY: PEPTIDE
218 <222> LOCATION: (26)
219 <223> OTHER INFORMATION: Xaa at position 26 is Ser-amide
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Description of Artificial Sequence: Hybrid
223 antimicrobial peptide
225 <400> SEQUENCE: 13
226 Lys Trp Lys Leu Phe Lys Lys Ile Gly Ile Gly Ala Val Leu Lys Val
227 1 5 10 15
W--> 229 Leu Thr Thr Gly Leu Pro Ala Leu Ile Xaa
230 20 25
233 <210> SEQ ID NO: 14
234 <211> LENGTH: 16
235 <212> TYPE: PRT
236 <213> ORGANISM: Artificial Sequence
238 <220> FEATURE:
239 <221> NAME/KEY: PEPTIDE
240 <222> LOCATION: (16)
241 <223> OTHER INFORMATION: Xaa at position 16 is Leu-amide
243 <220> FEATURE:
244 <223> OTHER INFORMATION: Description of Artificial Sequence: Hybrid
245 antimicrobial peptide
247 <400> SEQUENCE: 14
W--> 248 Lys Trp Lys Gly Ile Gly Ala Val Leu Lys Val Leu Thr Thr Gly Xaa
249 1 5 10 15

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/904,753

DATE: 08/28/2001
TIME: 18:47:36

Input Set : A:\Pto.amc
Output Set: N:\CRF3\08282001\I904753.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14